Ultimate Pi Bakeoff

Moonn Electronics

Use me to build a clone of a shitload of Big Muff variants

Hi there!
Thank you for building me!

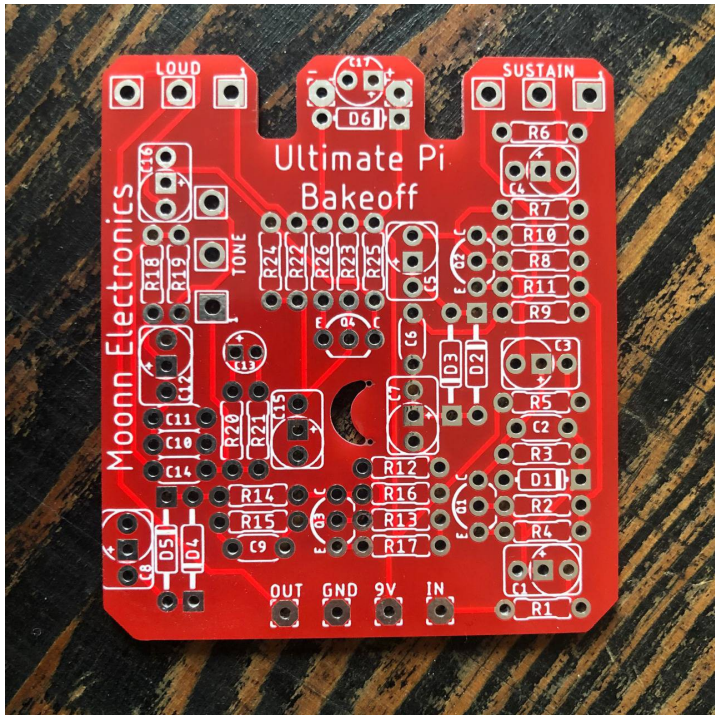
Man these sure are a lot of different big muffs
Which might building a little weird
Please note that you only have to use the middle lug of these capacitor footprints if you are using electrolytix capacitors.

On the back of me you will find 8 numbered pairs of blank copper squares
These are called jumpers.
Just check the BOM you want to use and connect the two squares of the jumpers the BOM tells you to connect.
The easiest way to do that is to scratch into the silkscreen between the squares and just connect them directly with solder. Or put a tiny clipping of wire acreoss them and solder that on. You will find a way.

If you have any questions or anything else to say, just write an email to
moonnelectronics@gmail.com

Please note that not all of the BOMs are verified even tho they should all work.
If you are having trouble with a build please write an E-Mail too and if the BOM was at fault you will get a new PCB (adn probably something eles too...)

Have a nice day!



Moonn Electronics is in no way affiliated with Electro Harmonix or any of the other companys listed in these build docs

BOMs

- V1 Triange (the very first ones built on stripboard)
- V1 Triange (the regular version)
- V2 Rams Head (White Can version)
- V2 Violet Rams Head
- V3
- V6
- V7 Green Russian Tall font, Civil War and Red Army Overdrive
- V7 Bubble Font Green and Black Russian and V8 Black Russian
- V9 NYC Reissue
- The newest EHX version I could find
- Bass Big Muff (Light)
- Little Big Muff
- Colorsound Bass Fuzz
- Colorsound Jumbo ToneBender
- Colorsound Supa ToneBender
- Sustain Punch Creamy Dreamer
- Death By Audio Fuzz War
- Earthquaker Devices Hizumitas
- Elk Sustainar
- Faustone Fuzz Unit
- Ibanez OD-850, Maxon OD-801
- Rozz Dead Heat
- Pete Cornish G2 (without buffers)
- Sam Ash Fuzzola II, Sam Ash Jumbo Fuzz, Jen Jumbo Fuzz
- Sekova (Shin Ei) Big Muff Model 2015
- Way Huge Swollen Pickle (first version)
- Moen Fuzz Moo
- Behringer VD1 Vintage Distortion
- „Mosfet Big Muff“
- Moonn Electronics Bullshit Distortion

Bill of Materials

V1 Triange (the very first ones built on stripboard)

Resistors		Capacitors	
R1	36K	C1	1u
R2	100K	C2	500p
R3	470K	C3	680n
R4	120R	C4	680n
R5	39K	C5	1u
R6	1K	C6	500p
R7	10K	C7	1u
R8	100K	C8	1u
R9	470K	C9	500p
R10	10K	C10	
R11	120R	C11	
R12	10K	C12	4n
R13	100K	C13	
R14		C14	10n
R15	470K	C15	680n
R16	39K	C16	680n
R17	120R	C17	100u
R18		Diodes	
R19	27K	D1	
R20	27K	D2	1N914
R21		D3	1N914
R22	100K	D4	1N914
R23	470K	D5	1N914
R24		D6	1N4001
R25	10K	Transistors	
R26	2K2	Q1	2N5133*
Potentiometers		Q2	2N5133*
Sustain	B100K	Q3	2N5133*
Tone	B100K	Q4	2N5133*
Loud	B100K		
Jumper Connected:		4+5	

* If you can't find these transistors maybe try 2N5088

Bill of Materials

V1 Triange (the regular version)

Resistors		Capacitors	
R1	33K	C1	100n
R2	100K	C2	500p
R3	470K	C3	100n
R4	100R	C4	100n
R5	10K or 15K	C5	100n
R6	820R	C6	500p
R7	8K2	C7	100n
R8	100K	C8	100n
R9	470K	C9	500p
R10	10K	C10	
R11	100R	C11	
R12	8K2	C12	4n
R13	100K	C13	
R14		C14	10n
R15	470K	C15	100n
R16	15K	C16	100n
R17	100R	C17	100u
R18		Diodes	
R19	33K	D1	
R20	33K	D2	1N914
R21		D3	1N914
R22	100K	D4	1N914
R23	390K	D5	1N914
R24		D6	1N4001
R25	12K	Transistors	
R26	2K7	Q1	FS36999*
Potentiometers		Q2	FS36999*
Sustain	B100K	Q3	FS36999*
Tone	B100K	Q4	FS36999*
Loud	B100K		
Jumper Connected:		4+5	

* If you can't find these transistors maybe try 2N5088

Bill of Materials

V2 Rams Head (White Can version)

Resistors		Capacitors	
R1	33K	C1	10u
R2	100K	C2	220p
R3	470K	C3	120n
R4	100R	C4	120n
R5	12K	C5	120n
R6	820R	C6	680p
R7	10K	C7	10u
R8	100K	C8	120n
R9	470K	C9	680p
R10	12K	C10	
R11	150R	C11	
R12	10K	C12	4n
R13	100K	C13	
R14		C14	6n8
R15	470K	C15	120n
R16	12K	C16	10u
R17	150R	C17	100u
R18		Diodes	
R19	33K	D1	
R20	33K	D2	1N914
R21		D3	1N914
R22	100K	D4	1N914
R23	390K	D5	1N914
R24		D6	1N4001
R25	12K	Transistors	
R26	3K3	Q1	FS36999*
Potentiometers		Q2	FS36999*
Sustain	B100K	Q3	FS36999*
Tone	B100K	Q4	FS36999*
Loud	B100K		
Jumper Connected:		4+5	

* If you can't find these transistors maybe try 2N5088

Bill of Materials

V2 Violet Rams Head

Resistors		Capacitors	
R1	33K	C1	100n
R2	100K	C2	470p
R3	470K	C3	100n
R4	100R	C4	100n
R5	12K	C5	100n
R6	560R	C6	470p
R7	8K2	C7	100n
R8	100K	C8	100n
R9	470K	C9	470p
R10	12K	C10	
R11	100R	C11	
R12	8K2	C12	4n
R13	100K	C13	
R14		C14	10n
R15	470K	C15	100n
R16	12K	C16	100n
R17	100R	C17	100u
R18		Diodes	
R19	33K	D1	
R20	33K	D2	1N914
R21		D3	1N914
R22	100K	D4	1N914
R23	470K	D5	1N914
R24		D6	1N4001
R25	12K	Transistors	
R26	2K7	Q1	FS36999*
Potentiometers		Q2	FS36999*
Sustain	B100K	Q3	FS36999*
Tone	B100K	Q4	FS36999*
Loud	B100K		
Jumper Connected:		4+5	

* If you can't find these transistors maybe try 2N5088

Bill of Materials
V3

Resistors		Capacitors	
R1	39K	C1	10u
R2	47K	C2	470p
R3	470K	C3	1u
R4	100R	C4	100n
R5	15K	C5	1u
R6	1K	C6	470p
R7	10K	C7	100n
R8	100K	C8	1u
R9	470K	C9	470p
R10	15K	C10	
R11	150R	C11	
R12	10K	C12	4n
R13	100K	C13	
R14		C14	10n
R15	470K	C15	100n
R16	15K	C16	100n
R17	150R	C17	100u
R18		Diodes	
R19	22K	D1	
R20	39K	D2	1N914
R21		D3	1N914
R22	100K	D4	1N914
R23	430K	D5	1N914
R24		D6	1N4001
R25	15K	Transistors	
R26	3K3	Q1	BC239*
Potentiometers		Q2	BC239*
Sustain	B100K	Q3	BC239*
Tone	B100K	Q4	BC239*
Loud	B100K		
Jumper Connected:		4+5	

* If you can't find these transistors maybe try 2N5088

Bill of Materials
V6

Resistors		Capacitors	
R1	39K	C1	1u
R2	100K	C2	470p
R3	470K	C3	1u
R4	100R	C4	100n
R5	15K	C5	1u
R6	1K	C6	470p
R7	8K2	C7	100n
R8	100K	C8	1u
R9	470K	C9	470p
R10	15K	C10	100n
R11	100R	C11	
R12	8K2	C12	4n
R13	100K	C13	
R14		C14	10n
R15	470K	C15	100n
R16	15K	C16	1u
R17	100R	C17	100u
R18		Diodes	
R19	22K	D1	
R20	39K	D2	1N914
R21		D3	1N914
R22	100K	D4	1N914
R23	390K	D5	1N914
R24		D6	1N4001
R25	10K	Transistors	
R26	2K2	Q1	2N5088
Potentiometers		Q2	2N5088
Sustain	B150K	Q3	2N5088
Tone	B150K	Q4	2N5088
Loud	B150K		
Jumper Connected:		4	

Bill of Materials

V7 Green Russian Tall font, Civil War and Red Army Overdrive

Resistors		Capacitors	
R1	39K	C1	100n
R2	100K	C2	500p
R3	470K	C3	100n
R4	390R	C4	100n
R5	12K	C5	47n
R6	1K	C6	500p
R7	10K	C7	100n
R8	100K	C8	47n
R9	470K	C9	500p
R10	12K	C10	
R11	390R	C11	
R12	10K	C12	3n9
R13	100K	C13	
R14		C14	10n
R15	470K	C15	100n
R16	12K	C16	100n
R17	390R	C17	100u
R18		Diodes	
R19	22K	D1	
R20	20K	D2	1N914
R21		D3	1N914
R22	100K	D4	1N914
R23	470K	D5	1N914
R24		D6	1N4001
R25	10K	Transistors	
R26	2K7	Q1	2N5089*
Potentiometers		Q2	2N5089*
Sustain	B100K	Q3	2N5089*
Tone	B100K	Q4	2N5089*
Loud	B100K		
Jumper Connected:		4+5	

* The original transistors were unmarked russian silicon transistors but these ones should work fine

Bill of Materials

V7 Bubble Font Green and Black Russian and V8 Black Russian

Resistors		Capacitors	
R1	39K	C1	100n
R2	100K	C2	470p
R3	470K	C3	100n
R4	390R	C4	100n
R5	12K	C5	47n
R6	1K	C6	470p
R7	10K	C7	100n
R8	100K	C8	47n
R9	470K	C9	470p
R10	12K	C10	
R11	390R	C11	
R12	10K	C12	3n9
R13	100K	C13	
R14		C14	10n
R15	470K	C15	100n
R16	12K	C16	100n
R17	390R	C17	100u
R18		Diodes	
R19	22K	D1	
R20	20K	D2	1N914
R21		D3	1N914
R22	100K	D4	1N914
R23	470K	D5	1N914
R24		D6	1N4001
R25	10K	Transistors	
R26	2K7	Q1	BC549C or 547C*
Potentiometers		Q2	BC549C or 547C*
Sustain	B100K	Q3	BC549C or 547C*
Tone	B100K	Q4	BC549C or 547C*
Loud	B100K		
Jumper Connected:		4+5	

*These ones were in the black ones while the green ones used 3102EM but you can just use 2N5089 for both

Bill of Materials

V9 NYC Reissue

Resistors		Capacitors	
R10	39K	C1	1u
R2	100K	C2	470p
R3	510K	C3	1u
R4	100R	C4	1u
R5	10K	C5	1u
R6	1K8	C6	470p
R7	10K	C7	1u
R8	100K	C8	1u
R9	470K	C9	470p
R10	10K	C10	
R11	390R	C11	
R12	10K	C12	3n9
R13	100K	C13	
R14		C14	10n
R15	470K	C15	1u
R16	10K	C16	1u
R17	390R	C17	100u
R18		Diodes	
R19	22K	D1	
R20	22K	D2	1N6263
R21		D3	1N6263
R22	100K	D4	1N6263
R23	470K	D5	1N6263
R24		D6	1N4001
R25	10K	Transistors	
R26	2K	Q1	2N5088
Potentiometers		Q2	2N5088
Sustain	B100K	Q3	2N5088
Tone	B100K	Q4	2N5088
Loud	B100K		
Jumper Connected:		4+5	

Bill of Materials

Newest version I could find

This was traced 2013 of a US Big Box model

Resistors		Capacitors	
R1	39K	C1	1u
R2	100K	C2	470p
R3	470K	C3	470n
R4	120R	C4	1u
R5	10K	C5	1u
R6	550R	C6	470p
R7	10K	C7	1u
R8	100K	C8	2u2
R9	470K	C9	470p
R10	10K	C10	
R11	120R	C11	
R12	10K	C12	3n3
R13	100K	C13	
R14		C14	10n
R15	470K	C15	470n
R16	10K	C16	100n
R17	120R	C17	100u
R18		Diodes	
R19	27K	D1	
R20	27K	D2	1N4148
R21		D3	1N4148
R22	100K	D4	1N4148
R23	470K	D5	1N4148
R24		D6	1N4001
R25	10K	Transistors	
R26	2K2	Q1	BC550C
Potentiometers		Q2	BC550C
Sustain	A100K	Q3	BC550C
Tone	B100K	Q4	BC550C
Loud	A500K		
Jumper Connected:		4+5	

Bill of Materials

Bass Big Muff (Light)

I ommited the Dry switch and a little bit of circuitry on the output that shouldn't make a big difference

Resistors		Capacitors	
R1	39K	C1	1u
R2	100K	C2	1n
R3	470K	C3	220n
R4	390R	C4	220n
R5	12K	C5	100n
R6	1K	C6	1n
R7	10K	C7	220n
R8	100K	C8	100n
R9	470K	C9	1n
R10	12K	C10	
R11	390R	C11	
R12	10K	C12	8n2
R13	100K	C13	
R14		C14	10n
R15	470K	C15	220n
R16	12K	C16	220n
R17	390R	C17	100u
R18		Diodes	
R19	22K	D1	
R20	11K5	D2	1N4148
R21		D3	1N4148
R22	100K	D4	1N4148
R23	470K	D5	1N4148
R24		D6	1N4001
R25	10K	Transistors	
R26	2K7	Q1	BC547
Potentiometers		Q2	BC547
Sustain	A100K	Q3	BC547
Tone	B100K	Q4	BC547
Loud	A200K		
Jumper Connected:		4+5	

Bill of Materials

Little Big Muff

The tone switch is a little weird here but you will manage that

Resistors		Capacitors	
R1	33K	C1	10u
R2	100K	C2	220p
R3	470K	C3	120n
R4	100R	C4	120n
R5	8K2	C5	120n
R6		C6	680p
R7	10K	C7	10u
R8	100K	C8	120n
R9	470K	C9	680p
R10	10K	C10	
R11	150R	C11	
R12	8K2	C12	4n
R13	100K	C13	
R14		C14	6n8
R15	470K	C15	120n
R16	15K	C16	10u
R17	150R	C17	100u
R18		Diodes	
R19	22K	D1	
R20	39K	D2	1N4148**
R21		D3	1N4148**
R22	100K	D4	1N4148**
R23	430K	D5	1N4148**
R24		D6	1N4001
R25	15K	Transistors	
R26	6K8	Q1	2N5088**
Potentiometers		Q2	2N5088**
Sustain	Connect pins 2+3	Q3	2N5088**
Tone	SPDT and 100K*	Q4	2N5088**
Loud	A100K		
Jumper Connected:		4+5	

* Solder the resistor to pins 1 and 3 and offboard wire the switch just like you would with a potentiometer

** No idea which semiconductors are in the original but these will work just fine

Bill of Materials

Colorsound Bass Fuzz

Resistors		Capacitors	
R10	33K	C1	220n
R2	100K	C2	1n
R3	470K	C3	220n
R4	100R	C4	220n
R5	15K	C5	
R6	1K	C6	1n
R7	8K2	C7	220n
R8	100K	C8	220n
R9	470K	C9	1n
R10	10K	C10	220n
R11	100R	C11	
R12	8K2	C12	4n7
R13	100K	C13	
R14		C14	10n
R15	470K	C15	
R16	15K	C16	
R17	100R	C17	100u
R18		Diodes	
R19	33K	D1	
R20	33K	D2	
R21		D3	
R22		D4	1N4148
R23		D5	1N4148
R24		D6	1N4001
R25		Transistors	
R26		Q1	BC549C
Potentiometers		Q2	BC549C
Sustain	A100K	Q3	BC549C
Tone	B100K	Q4	
Loud	A100K		
Jumper Connected:		4+7	

Bill of Materials

Colorsound Jumbo ToneBender

Resistors		Capacitors	
R1	33K	C1	100n
R2	100K	C2	470p
R3	470K	C3	100n
R4	100R	C4	100n
R5	15K	C5	
R6	1K	C6	470p
R7	8K2	C7	100n
R8	100K	C8	100n
R9	470K	C9	470p
R10	10K	C10	100n
R11	100R	C11	
R12	8K2	C12	3n9
R13	100K	C13	
R14		C14	10n
R15	470K	C15	100n
R16	15K	C16	
R17	100R	C17	100u
R18		Diodes	
R19	39K	D1	
R20	39K	D2	
R21		D3	
R22		D4	1N4148
R23		D5	1N4148
R24		D6	1N4001
R25		Transistors	
R26		Q1	BC184
Potentiometers		Q2	BC184
Sustain	A100K	Q3	BC184
Tone	B100K	Q4	
Loud	A100K		
Jumper Connected:		4+8	

Bill of Materials

Colorsound Supa ToneBender

Resistors		Capacitors	
R1	33K	C1	100n
R2	100K	C2	470p
R3	470K	C3	100n
R4	100R	C4	100n
R5	15K	C5	
R6	820R	C6	470p
R7	8K2	C7	100n
R8	100K	C8	100n
R9	470K	C9	470p
R10	10K	C10	100n
R11	100R	C11	
R12	8K2	C12	4n7
R13	100K	C13	
R14		C14	10n
R15	470K	C15	100n
R16	15K	C16	100n
R17	100R	C17	100u
R18		Diodes	
R19	33K	D1	
R20	33K	D2	
R21		D3	
R22	100K	D4	1N4148
R23	390K	D5	1N4148
R24		D6	1N4001
R25	10K	Transistors	
R26	2K7	Q1	BC184
Potentiometers		Q2	BC184
Sustain	A100K	Q3	BC184
Tone	A100K	Q4	BC184
Loud	A100K		
Jumper Connected:		4	

Bill of Materials

Sustain Punch Creamy Dreamer

Resistors		Capacitors	
R1	39K	C1	1u
R2	100K	C2	470p
R3	470K	C3	47n
R4		C4	1u
R5	15K	C5	1u
R6	1K	C6	470p
R7	8K2	C7	1u
R8	100K	C8	1u
R9	470K	C9	470p
R10	15K	C10	
R11		C11	
R12	8K2	C12	47n
R13	100K	C13	
R14		C14	10n
R15	470K	C15	100n
R16	15K	C16	100n
R17		C17	100u
R18		Diodes	
R19	47K	D1	
R20	47K	D2	1N914
R21		D3	1N914
R22	100K	D4	1N914
R23	390K	D5	1N914
R24		D6	1N4001
R25	10L	Transistors	
R26	2K2	Q1	2N5089
Potentiometers		Q2	2N5089
Sustain	A100K	Q3	2N5089
Tone	B100K	Q4	2N5089
Loud	A100K		
Jumper Connected:		1+2+3+4+5	

Bill of Materials

Death By Audio Fuzz War (the current version)

Resistors		Capacitors	
R1	1K5	C1	100n
R2	100K	C2	470p
R3	470K	C3	100n
R4	390K	C4	100n
R5	15K	C5	
R6	1K5	C6	470p
R7	8K2	C7	100n
R8	100K	C8	100n
R9	470K	C9	
R10	10K	C10	
R11	100R	C11	680p
R12	8K2	C12	2n2
R13	100K	C13	
R14	43K	C14	100n
R15	470K	C15	100n
R16	15K	C16	100n
R17	390R	C17	100u
R18		Diodes	
R19	3K8+6n8*	D1	
R20	33K	D2	
R21		D3	
R22	100K	D4	1N34A
R23	430K	D5	1N34A
R24		D6	1N4001
R25	10K	Transistors	
R26	2K2	Q1	2N5088
Potentiometers		Q2	2N5088
Sustain	A100K	Q3	2N5088
Tone	B100K	Q4	2N5088
Loud	A100K		
Jumper Connected:		5	

* I fucked up here so you need to solder them together
In series and treat them as if the were one part…

Bill of Materials

Earthquaker Devices Hizumitas

Resistors		Capacitors	
R1	33K	C1	100n
R2	82K	C2	560p
R3	390K	C3	100n
R4	100R	C4	100n
R5	18K	C5	47n
R6	820R	C6	560p
R7	8K2	C7	100n
R8	82K	C8	47n
R9	390K	C9	560p
R10	12K	C10	
R11	150R	C11	
R12	8K2	C12	3n3
R13	82K	C13	
R14		C14	10n
R15	390K	C15	100n
R16	18K	C16	100n
R17	100R	C17	100u
R18		Diodes	
R19	39K	D1	
R20	39K	D2	1N4148
R21		D3	1N4148
R22	47K	D4	1N4148
R23	390K	D5	1N4148
R24		D6	1N4001
R25	12K	Transistors	
R26	1K	Q1	2N3904
Potentiometers		Q2	2N3904
Sustain	B50K	Q3	2N3904
Tone	B50K	Q4	2N3904
Loud	B50K		
Jumper Connected:		4+5	

Bill of Materials

Elk Sustainar

Resistors		Capacitors	
R1	33K	C1	100n
R2	82K	C2	560p
R3	390K	C3	100n
R4	100R	C4	100n
R5	18K	C5	100n
R6	1K	C6	560p
R7	8K2	C7	100n
R8	82K	C8	50n
R9	390K	C9	560p
R10	12K	C10	
R11	150R	C11	
R12	8K2	C12	330p
R13	82K	C13	
R14		C14	10n
R15	390K	C15	100n
R16	18K	C16	100n
R17	100R	C17	100u
R18		Diodes	
R19	39K	D1	
R20	39K	D2	1N4148
R21		D3	1N4148
R22	100K	D4	1N4148
R23	390K	D5	1N4148
R24		D6	1N4001
R25	12K	Transistors	
R26	2K7	Q1	2N3904*
Potentiometers		Q2	2N3904*
Sustain	A100K	Q3	2N3904*
Tone	A100K	Q4	2N3904*
Loud	A100K		
Jumper Connected:		4+5	

*The original used PNP NEC A733 transistors and therefore used inverted voltage but I changed that so don't mind that use these transistors

Bill of Materials
Faustone Fuzz Unit

Resistors		Capacitors	
R10	39K	C1	100n
R2	100K	C2	470p
R3	470K	C3	100n
R4	100R	C4	100n
R5	10K	C5	
R6	1K	C6	470p
R7	10K	C7	100n
R8	100K	C8	100n
R9	470K	C9	470p
R10	10K	C10	100n
R11	100R	C11	
R12	10K	C12	3n3
R13	100K	C13	
R14		C14	10n
R15	470K	C15	100n
R16	15K	C16	
R17	100R	C17	100u
R18		Diodes	
R19	39K	D1	
R20	39K	D2	
R21		D3	
R22		D4	1N4148
R23		D5	1N4148
R24		D6	1N4001
R25		Transistors	
R26		Q1	ZTX383C*
Potentiometers		Q2	ZTX383C*
Sustain	A100K	Q3	ZTX382B*
Tone	B100K	Q4	
Loud	A100K		
Jumper Connected:		4+8	

* As you probaby can't find these transistors anywhere you could try BC184 and if you want to be extra specific you could use a low Hfe one in Q3 (around 150)
This was tested with BC550c in Q1 and Q2 and 2N2222 in Q3 and it sounded pretty fucking good

Bill of Materials

Ibanez OD-850, Maxon OD-801 (third edition)

Resistors		Capacitors	
R1	33K	C1	100n
R2	100K	C2	470p
R3	470K	C3	100n
R4	100R	C4	100n
R5	15K	C5	100n
R6	820R	C6	470p
R7	8K2	C7	100n
R8	100K	C8	100n
R9	470K	C9	470p
R10	10K	C10	
R11	100R	C11	
R12	8K2	C12	3n9
R13	100K	C13	1u
R14		C14	10n
R15	470K	C15	100n
R16	15K	C16	1u
R17	100R	C17	100u
R18		Diodes	
R19	33K	D1	
R20		D2	1N914
R21	33K	D3	1N914
R22	100K	D4	1N914
R23	390K	D5	1N914
R24		D6	1N4001
R25	10K	Transistors	
R26	2K7	Q1	2SC1815BL*
Potentiometers		Q2	2SC1815BL*
Sustain	A100K	Q3	2SC1815BL*
Tone	B50K	Q4	2SC1815BL*
Loud	A50K		
Jumper Connected:		4+5	

* If you can't find these transistors, maybe try 2N5088

Bill of Materials

Rozz Dead Heat

This one is supposed to be powered with 18V

Resistors		Capacitors	
R1	33K	C1	10u
R2	100K	C2	200p
R3	470K	C3	220n
R4	150R	C4	220n
R5	12K	C5	100n
R6	620K	C6	500p
R7	10K	C7	10u
R8	100K	C8	100n
R9	470K	C9	500p
R10	12K	C10	
R11	150R	C11	
R12	10K	C12	3n9
R13	100K	C13	
R14		C14	8n2
R15	470K	C15	100n
R16	12K	C16	10u
R17	150R	C17	100u
R18		Diodes	
R19	33K	D1	
R20	33K	D2	1N914
R21		D3	1N914
R22	100K	D4	1N914
R23	390K	D5	1N914
R24		D6	1N4001
R25	12K	Transistors	
R26	3K3	Q1	2N5089
Potentiometers		Q2	2N5089
Sustain	B100K	Q3	2N5089
Tone	B100K	Q4	2N5089
Loud	B50K		
Jumper Connected:		4+5	

Bill of Materials

Pete Cornish G2 (without buffers)

Resistors		Capacitors	
R10	39K	C1	47n
R2	100K	C2	1n
R3	470K	C3	47n
R4	100R	C4	47n
R5	18K	C5	220n
R6	1K	C6	1n
R7	8K2	C7	4u7
R8	100K	C8	220n
R9	470K	C9	1n
R10	15K	C10	
R11	680R	C11	
R12	8K2	C12	4u7
R13	100K	C13	
R14		C14	10n
R15	470K	C15	220n
R16	15K	C16	220n
R17	100R	C17	100u
R18		Diodes	
R19	100K	D1	
R20		D2	1N60*
R21		D3	1N60*
R22	100K	D4	1N60*
R23	390K	D5	1N60*
R24		D6	1N4001
R25	8K2	Transistors	
R26	2K2	Q1	2N5088
Potentiometers		Q2	2N5088
Sustain	A50K	Q3	2N5088
Tone	B25K	Q4	2N5088
Loud	A10K		
Jumper Connected:		4+5	

* The original uses unmarked germanium diodes rated around 220-250mV but 1N60 supposedly gets you close

** This version lacks 3 components in the output section this shouldn't make too much of a diffference in sound but just note that if you care about that

Bill of Materials

Sam Ash Fuzzola II, Sam Ash Jumbo Fuzz, Jen Jumbo Fuzz

Resistors		Capacitors	
R1	33K	C1	100n
R2	82K	C2	470p
R3	390K	C3	100n
R4	82R	C4	100n
R5	22K	C5	47n
R6	1K	C6	470p
R7	8K2	C7	100n
R8	82K	C8	47n
R9	390K	C9	470p
R10	22K	C10	100n
R11		C11	
R12	8K2	C12	4n7
R13	82K	C13	
R14		C14	10n
R15	390K	C15	100n
R16	22K	C16	100n
R17		C17	100u
R18		Diodes	
R19	33K	D1	
R20	33K	D2	1N4148
R21		D3	1N4148
R22	100K	D4	1N4148
R23	390K	D5	1N4148
R24	470p*	D6	1N4001
R25	12K	Transistors	
R26	2K7	Q1	5172**
Potentiometers		Q2	5172**
Sustain	A100K	Q3	5172**
Tone	B100K	Q4	5172**
Loud	A100K		
Jumper Connected:		2+3+4	

* Yea I know this is a capacitor that goes into this resistor marked slot... get off my back

** Just use 2N5088 if you can't find these weird transistors

Bill of Materials

Sekova (Shin Ei) Big Muff Model 2015

Resistors		Capacitors	
R1	33K	C1	100n
R2	100K	C2	500p
R3	470K	C3	100n
R4	150R	C4	100n
R5	10K	C5	47n
R6	1K	C6	500p
R7	8K2	C7	100n
R8	100K	C8	47n
R9	470K	C9	500p
R10	10K	C10	
R11	150R	C11	
R12	8K2	C12	4n
R13	100K	C13	
R14		C14	10n
R15	470K	C15	100n
R16	12K	C16	100n
R17	150R	C17	100u
R18		Diodes	
R19	33K	D1	
R20	33K	D2	1N914
R21		D3	1N914
R22	100K	D4	1N914
R23	470K	D5	1N914
R24		D6	1N4001
R25	12K	Transistors	
R26	2K7	Q1	FS36999*
Potentiometers		Q2	FS36999*
Sustain	A100K	Q3	FS36999*
Tone	B100K	Q4	FS36999*
Loud	A100K		
Jumper Connected:		4+5	

* Just use 2N5088 if you don't want to search for long obsolete transistors

Bill of Materials

Way Huge Swollen Pickle (first version)

Resistors		Capacitors	
R10	33K	C1	1u
R2	100K	C2	470p
R3	475K	C3	1u
R4	100R	C4	1u
R5	15K	C5	1u
R6	1K	C6	470p
R7	10K	C7	100n
R8	100K	C8	100n
R9	475K	C9	470p
R10	15K	C10	
R11	100R	C11	
R12	10K	C12	3n3
R13	100K	C13	
R14		C14	47n
R15	475K	C15	100n
R16	15K	C16	1u
R17	100R	C17	100u
R18		Diodes	
R19	22K	D1	
R20	33K	D2	1N914
R21		D3	1N914
R22	100K	D4	1N914
R23	475K	D5	1N914
R24		D6	1N4001
R25	10K	Transistors	
R26	1K5	Q1	2N3904*
Potentiometers		Q2	2N3904*
Sustain	B100K	Q3	2N3904*
Tone	B100K	Q4	2N3904*
Loud	B100K		
Jumper Connected:		4+5+6	

* The original uses some weirdo quad-transistor-chip-thingy called MPQ3904 but you can just use these ones

Bill of Materials

Sound ES-5 Devils Fuzz

Resistors		Capacitors	
R1	39K	C1	2u2
R2	47K	C2	560p
R3	470K	C3	10n
R4	100R	C4	120n
R5	10K	C5	1u
R6	1K2	C6	560p
R7	10K	C7	10n
R8	100K	C8	1u
R9	470K	C9	560p
R10	10K	C10	
R11	150R	C11	
R12	10K	C12	50n
R13	100K	C13	
R14		C14	
R15	470K	C15	10n
R16	15K	C16	1u
R17	150R	C17	100u
R18		Diodes	
R19	22K	D1	
R20	39K	D2	1N4148
R21		D3	1N4148
R22	100K	D4	1N4148
R23	430K	D5	1N4148
R24		D6	1N4001
R25	15K	Transistors	
R26	3K3	Q1	BC327
Potentiometers		Q2	BC327
Sustain	A100K	Q3	BC327
Tone	B100K	Q4	BC327
Loud	A100K		
Jumper Connected:		4+5	

Bill of Materials

Moen Fuzz Moo

Resistors		Capacitors	
R1	39K	C1	100n
R2	100K	C2	470p
R3	470K	C3	100n
R4	100R	C4	100n
R5	15K	C5	100n
R6	1K	C6	470p
R7	8K2	C7	100n
R8	100K	C8	100n
R9	470K	C9	470p
R10	15K	C10	
R11	100R	C11	
R12	8K2	C12	4n7
R13	100K	C13	
R14		C14	10n
R15	470K	C15	100n
R16	15K	C16	100n
R17	100R	C17	100u
R18		Diodes	
R19	100K	D1	
R20	39K	D2	1N914
R21		D3	1N914
R22	100K	D4	1N914
R23	390K	D5	1N914
R24		D6	1N4001
R25	10K	Transistors	
R26	2K2	Q1	2N5088
Potentiometers		Q2	2N5088
Sustain	B100K	Q3	2N5088
Tone	B100K	Q4	2N5088
Loud	B100K		
Jumper Connected:		4+5	

Bill of Materials

Behringer VD1 Vintage Distortion (2011 version)

Resistors		Capacitors	
R10	39K	C1	100n
R2	100K	C2	470p
R3	470K	C3	100n
R4	390R	C4	100n
R5	12K	C5	680n
R6	1K	C6	470p
R7	10K	C7	680n
R8	100K	C8	680n
R9	470K	C9	470p
R10	12K	C10	
R11	390R	C11	
R12	10K	C12	4n7
R13	100K	C13	
R14		C14	10n
R15	470K	C15	100n
R16	12K	C16	100n
R17	390R	C17	100u
R18		Diodes	
R19	100K	D1	
R20	20K	D2	1N4148
R21		D3	1N4148
R22	100K	D4	1N4148
R23	390K	D5	1N4148
R24		D6	1N4001
R25	10K	Transistors	
R26	2K2	Q1	BC846
Potentiometers		Q2	BC846
Sustain	B100K	Q3	BC846
Tone	B100K	Q4	BC846
Loud	B100K		
Jumper Connected:		4+5	

Bill of Materials

A „Mosfet Big Muff“ made by reddit user PeanutNore

Resistors		Capacitors	
R1	33K	C1	1u
R2	4M7	C2	470p
R3	4M7	C3	1u
R4	200R	C4	1u
R5	12K	C5	100n
R6	560R	C6	470p
R7	8K2	C7	1u
R8	4M7	C8	100n
R9	4M7	C9	470p
R10	12K	C10	
R11	200R	C11	
R12	8K2	C12	3n9
R13	4M7	C13	
R14		C14	22n
R15	4M7	C15	220n
R16	12K	C16	220n
R17	200R	C17	100u
R18		Diodes	
R19	33K	D1	9v1 Zener
R20	33K	D2	1N914
R21		D3	1N914
R22	4M7	D4	1N914
R23		D5	1N914
R24	4M7	D6	1N4001
R25	12K	Transistors	
R26	200R	Q1	BS170
Potentiometers		Q2	BS170
Sustain	A1M	Q3	BS170
Tone	B100K	Q4	BS170
Loud	A100K		
Jumper Connected:		4+5	

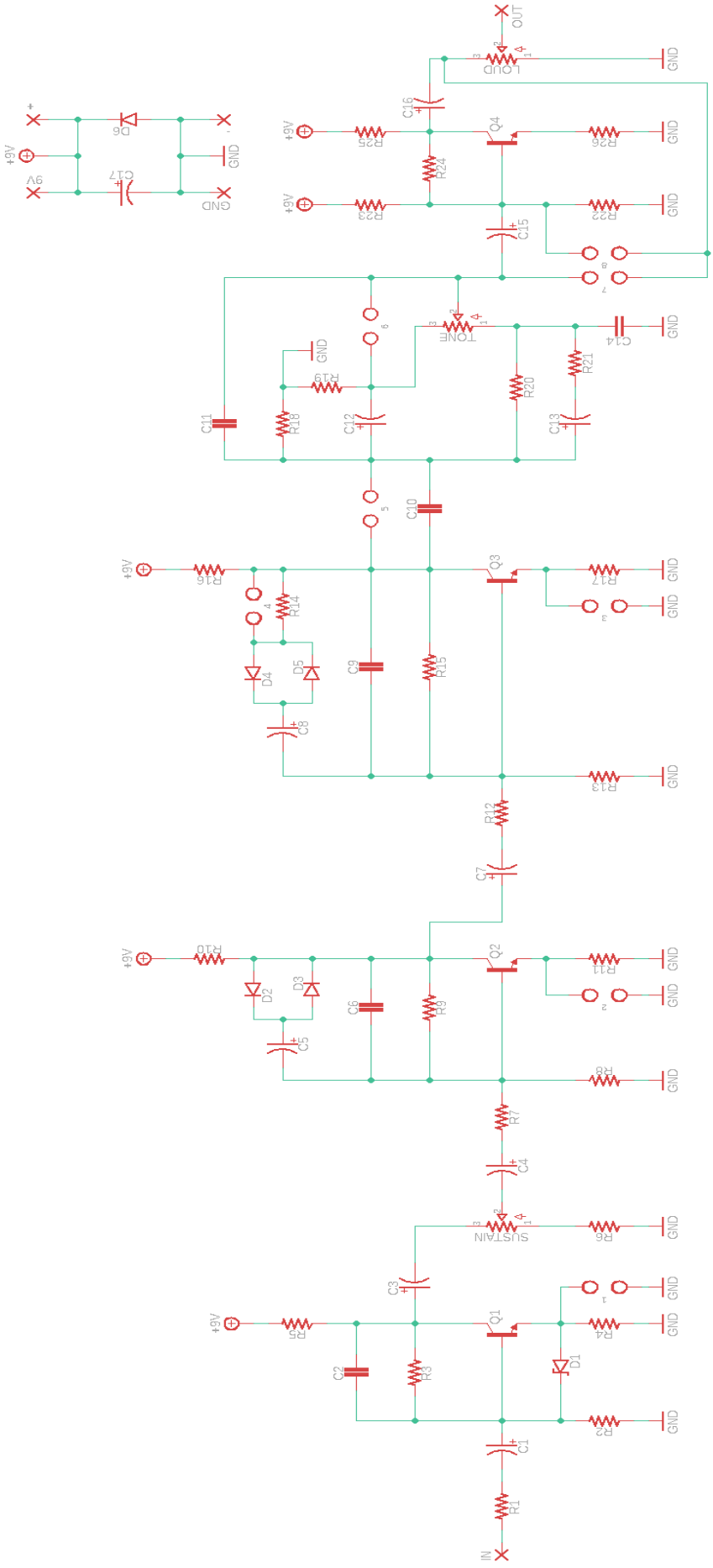
Bill of Materials

Moonn Electronics Bullshit Distortion

Why would you even want to build this?

Resistors		Capacitors	
R1	33K	C1	1u
R2	4M7	C2	470p
R3	4M7	C3	1u
R4	200R	C4	1u
R5	12K	C5	
R6	560R	C6	1n
R7	8K2	C7	220n
R8	100K	C8	220n
R9	470K	C9	
R10	10K	C10	
R11	100R	C11	680p
R12	8K2	C12	2n2
R13	100K	C13	
R14	43K	C14	100n
R15	470K	C15	220n
R16	15K	C16	220n
R17	390R	C17	100u
R18		Diodes	
R19	3K9	D1	9v1 Zener
R20	33K	D2	
R21		D3	
R22	4M7	D4	Blue LED
R23		D5	Blue LED
R24	4M7	D6	1N4001
R25	12K	Transistors	
R26	200R	Q1	BS170
Potentiometers		Q2	2N2222
Sustain	A1M	Q3	2N2222
Tone	B100K	Q4	BS170
Loud	A100K		
Jumper Connected:		5	

Schematic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R25
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C11
R18
C12
C13
C10
R16
Q3
R17
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R8
R7
C4
SUSTAIN
R6
C3
R5
Q1
R4
C2
R3
D1
R2
C1
R1
IN

Offboard Wiring